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Washington, D.C. 20231

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AUG 3 0 2002

Re: U.S. Patent Application No.: 10/018638

U.S. Palent Application 130... 10/010000
For: GROWTH DIFFERENTIATION FACTOR-9 REGULATORY SEQUENCES TECH CENTER 1600/2900 Inventors: Matzuk, M. M. et al.

August 14, 2002

Filed: December 19, 2001 Our Ref. No.: MTN-029US

Dear Sir:

I enclose herewith for filing in the above-identified application the following:

- Information Disclosure Statement;
- PTO Form 1449; 3.
- Copies of the references cited in PTO Form 1449 (22); 4.
- A Statement of Limited Recognition Under 37 CFR §10.9(b); and 5.

No additional costs are believed to be due in connection with the filing of this Infoation Disclosure Statement. However, please charge any other necessary fees due in connectioith the enclosed statement to our Deposit Order Account No. 12-0080. For this purpose, a dupliof this

I hereby certify that this correspondence is deposited with the United States Postal Service as first class mail in an envelope addressed to: Commissioner for Patents, Washington, D.C. 20231 on:

Maria C. Laccotripe, Ph.D., Limited Recognition Under 37 CFR § 0.9(b)

Respectfully submitted,

LAHIVE & COCKFIELD, LI

Maria C. Laccotripe, Ph.D.

Attorney for Applicants Limited Recognition Under 10.9(b)



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re the application of: Matzuk, M. M. et al.

Serial No.: 10/018638

Filed: December 19, 2001

For: GROWTH DIFFERENTIATION FACTOR-9
REGULATORY SEQUENCES AND USES

THEREFOR

Attorney Docket No.: MTN-029US

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Group Art Unit: Not yet assigned

Examiner: Not yet assigned

AUG 3 0 2002

TECH CENTER 1600/2900

Commissioner for Patents Washington, D.C. 20231

Certificate of First Class Mailing (37 CFR §1.8(a))

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Date of Signature and of Mail Deposit

By:

Maria C. Laccotripe, Ph.D.

Attorney for Applicants

Limited Recognition Under 37 CFR §10.9(b)

INFORMATION DISCLOSURE STATEMENT

Dear Sir:

Applicants and their Attorney are aware of the following publications and information, listed on the attached PTO Form 1449, and in accordance with 37 CFR §1.97 hereby submit these publications for the Examiner's consideration. A copy of each cited publication is enclosed.

This statement is not to be interpreted as a representation that the cited publications are material, that an exhaustive search has been conducted, or that no other relevant information exists.

Serial Number: 10/018638 Page -2- Filing Date: December 19, 2001

Nor shall the citation of any publication herein be construed *per se* as a representation that such publication is prior art. Moreover, the Applicants understand that the Examiner will make an independent evaluation of the cited publications.

Under 37 CFR § 1.97(b)(3), no additional costs are believed to be due in connection with the filing of this disclosure. If, however, a first Office Action on the merits issues in this application bearing a mailing date prior to the date of this Information Disclosure Statement, please charge the appropriate fee as required under 37 CFR §1.17(p) to our Deposit Order Account No. 12-0080.

Respectfully submitted,

LAHIVE & COCKFIELD, LLP

Maria C. Laccotripe, Ph.D. Attorney for Applicants

Limited Recognition Under 37 CFR §10.9(b)

28 State Street Boston, MA 02109 (617) 227-7400

Date

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Enclosures

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APPLICANT FACSIMILE OF FORM PTO-1449	U.S. DEPARTMENT OF COMMERCE	ATTY DOCKET NO	SERIAL NO.
OTPE	PATENT AND TRADEMARK OFFICE	MTN-029US	10/018638
LIST OF PUBLICATIONS C	ITED BY APPLICANT	APPLICANT	
se several sheets	if necessary)	Matzuk, M. M. et al.	
AUG 2 0 2002 W		FILING DATE	GROUP
		December 19, 2001	Not yet assigned
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U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	A1	5,614,396	03/97	Bradley et al.	435	172.3	II APROPRIATE
	A2	5,821,056	10/98	Lee	435	6	

FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSL	ATION
A3	WO 95/06118 A1	03/95	WO			YES	NO
A4	WO 97/19180 A2,A3	05/97	WO				

OTHERS (including Author, Title, Date, Pertinent Pages, Etc.)

T	OTHERS (including Author, Title, Date, Pertinent Pages, Etc.)
A5	EMBL database acc. no.: AA388141; vb59g09.r1 Ko mouse embryo 11 5dpc Mus musculus
	cDNA clone IMAGE:761344 5', mRNA sequence
A6	EMBL database acc. no.: AA035964; mi70f04.r1 Soares mouse embryo NbME13.5 14.5 Mus musculus cDNA clone IMAGE:468895 5' similar to SW:UCR7_BOVIN P13271 UBIQUINOL-CYTOCHROME C REDUCTASE 9.5 KD PROTEIN ;, mRNA sequence
A7	Podensteiner K. L. et al. Malagular alaci.
	Bodensteiner, K.J. et al. Molecular cloning of the ovine growth/fifferentiation factor-9 gene and expression of growth/differentiation factor-9 in ovine and bovine ovaries. <i>Biol. Reprod.</i> 1999 Feb;60(2):381-6
A8	Carabatsos, M.J. et al. Characterization of oocyte and follicle development in growth
	differentiation factor-9-deficient mice. Dev. Biol. 1998 Dec 15;204(2):373-84
A9	Casadaban, M.J. et al. Analysis of gene control signals by DNA fusion and cloning in Escherichia coli. J. Mol. Biol. 1980 Apr;138(2):179-207
A10	Dong, J. et al. Growth differentiation factor-9 is required during early ovarian folliculogenesis. Nature. 1996 Oct 10;383(6600):531-5.
A11	Dube, J.L. et al. The bone morphogenetic protein 15 gene is X-linked and expressed in oocytes. Mol. Endocrinol. 1998 Dec;12(12):1809-17
A12	Fitzpatrick, S.L. et al. Expression of growth differentiation factor-9 messenger ribonucleic acid in ovarian and nonovarian rodent and human tissues. <i>Endocrinology</i> . 1998 May;139(5):2571-8
A13	Garver, R.I. Jr. et al. Strategy for achieving selective killing of carcinomas. Gene Ther. 1994 Jan;1(1):46-50
A14	Hayashi, M. et al. Recombinant growth differentiation factor-9 (GDF-9) enhances growth and differentiation of cultured early ovarian follicles. <i>Endocrinology</i> . 1999 Mar;140(3):1236-44
A15	Incerti, B. et al. Structure of the mouse growth/differentiation factor 9 gene. Biochim. Biophys. Acta. 1994 May 26;1222(1):125-8
A16	Liang, LF. et al. FIGa, a germ cell specific transcription factor involved in the coordinate
	expression of the zona pellucida genes. <i>Development</i> . 1997 Dec;124(24):4939-47
Examiner	Date Considered
*EXAMINER:	Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.
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U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE

ATTY DOCKET NO MTN-029US

SERIAL NO. 10/018638

LIST OF PUBLICATIONS CITED BY APPLICANT (Use several sheets if necessary)

APPLICANT Matzuk, M. M. et al. GROUP N t yet assigned December 19, 2001

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
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FOREIGN PATENT DOCUMENTS

DOCUMENT NUMBER	DATE	Country	CLASS	SUBCLASS	TRANSL	ATION
					YES	NO
					• • • • • •	
						

		OTHERS (including Author, Title, Date, Pertinent Pages, Etc.)
	B1	Lira, S.A. et al. cis-Acting DNA elements involved in oocyte-specific expression of mouse sperm receptor gene mZP3 are located close to the gene's transcription start site. Mol. Reprod. Dev.
		1993 Dec;36(4):494-9
	B2	McGrath, S.A. et al. Oocyte-specific expression of growth/differentiation factor-9. <i>Mol. Endocrinol</i> . 1995 Jan;9(1):131-6
	B3	McPherron, A.C. et al. GDF-3 and GDF-9: two new members of the transforming growth factor-β superfamily containing a novel pattern of cysteines. J. Biol. Chem. 1993 Feb 15;268(5):3444-9.
į	B4	Millar, S.E. et al. Oocyte-specific factors bind a conserved upstream sequence required for mouse zona pellucida promoter activity. Mol. Cell. Biol. 1991 Dec;11(12):6197-204.
E	B5	Sauer, B. Inducible gene targeting in mice using the Cre/lox system. Methods. 1998 Apr;14(4):381-92
E	B6	Zinkel, S.S. et al. Identification of a negative regulatory element that inhibits c-mos transcription in somatic cells. Mol. Cell. Biol. 1992 May;12(5):2029-36
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		TECH CENTER 1000/2000
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